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### **Design document- Medical web-services.**

Medical web-services web-application involves consuming 3 web-apis for namely below operations:

1. Finding nearby doctors for given location
2. Finding nearby hospitals for given location
3. Finding disease information for given disease name.

Following Web-apis were used respectively to obtain above information.

1. Better Doctor
2. Google places
3. National library of medicine.

#### **Algorithm for the project -**

1. Take input parameter location (City, State).
2. Accept ailment/disease name.
3. Find co-ordinates of location- Latitude and Longitude using google maps api.
4. Use the co-ordinates information to find nearby doctors name for given location using Better Doctor API.
5. Use the co-ordinates information to find nearby Hospital names for given location using Google places API.
6. Use input parameter disease name to find disease information using National library of medicine API
7. Display the information on UI using Struts2 UI tags.

**Frameworks and technology used-** Java, JSON, Struts2, HTML, Tomcat 8 server, Web-api from Better doctor, Google places and National library of medicine, Eclipse IDE.

*Future work involves providing options to set location radius and number of doctors to be presented.*